

SUBSTITUTE FORM PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 08917/048001	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT Masahide Shima et al.	
(37 CFR 1.98(b))		FILING DATE November 16, 1999	GROUP 1754

11046 U.S. PTO
10/052785
11/02/01

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CAN	AA	5 3 9 5 8 1 2	03/07/95	Nagase et al.	502	238	
CAN	AB	5 1 0 0 8 5 9	03/31/92	Gerdes et al.	502	439	
CAN	AC	5 0 7 7 2 5 6	12/31/91	Yamamoto et al.	502	243	
CAN	AD	4 1 6 8 2 4 7	09/18/79	Hayden et al.	252	476	
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
CAN	AL	0 207 550	09/19/90	EP	B01J	23/66		
CAN	AM	A-57-171435	10/22/82	JP (Abstract Included)	B01J	21/12		
CAN	AN	A-4-363139	12/16/92	JP (Abstract Included)	B01J	23/50		
	AO							
	AP							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	AQ	
	AR	
	AS	

EXAMINER <div style="font-family: cursive; font-size: 1.2em;">Cam Nguyen</div>	DATE CONSIDERED <div style="font-family: cursive; font-size: 1.2em;">7/29/03</div>
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EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
08917-048001Application No.
09/441,545**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
Masahide Shima et al.Filing Date
November 16, 1999

Group Art Unit

11046 U.S. PTO
10/052785
11/02/01**U.S. Patent Documents**

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
CN	AA	4,812,437	03/14/89	Nojiri et al.	502	243	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
CN	AL	A-4-346835	12/2/92	JP	B01J	23/66	X	
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

Examiner Signature

Cam Nguyen

Date Considered

7/29/03

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Substitute Disclosure Form (PTO-1449)